

TIAMA

(SOCIETE ANONYME A CONSEIL DE SURVEILLANCE ET DIRECTOIRE)

(Public limited company with Supervisory Board and Board of Management)

**METHOD AND DEVICE FOR DETECTING SURFACE DEFECTS ON THE
NECK RING OF A TRANSPARENT OR TRANSLUCENT
CONTAINER OF REVOLUTION**

ABSTRACT:

The device for detecting surface defects (2) on the neck ring (3) of a container comprises:

- a light source (5) adapted to illuminate, by means of an incident light beam, a section of the surface of the neck ring of the container, along a determined incident direction (D_i),
- at least one linear sensor (10) to measure light beams, arranged so as to receive the light beam reflected by the surface defect, the angle (α) between the incident (D_i) and reflection (D_r) directions lying between 15 and 45°, preferably in the order of 30°, one of the directions being parallel to the axis of revolution of the container,
- means (15) for ensuring the rotation of the container about the axis of revolution through at least one rotation,
- and a unit (16) for analysing and processing light beams received by the linear sensor, adapted to identify the presence of a surface defect.

(Figure to be published: **fig. 1**)